

Mesa Verde National Park – Water Year 2003
371508108212801 Mancos River at Anitas Flat, CO

LOCATION. –Lat 37° 15' 08", Long 108° 21' 28", NW ¼ sec.35, T. 35 N R 14 W, Montezuma County, Hydrologic Unit 14080107, 7.4 miles SSW of Mancos, CO, 3.0 miles south of confluence with Mud Creek on right bank about 1.05 miles inside MEVE boundary.

DRAINAGE AREA. – 160 mi².

PERIOD OF RECORD. – October 2000 to current year.

GAGE. – Water-stage recorder. Elevation of gage is 6330 feet above MSL, as determined by GPS.

REMARKS. – Estimated values on November 22 – 24 are due to lost transmissions. Estimated values from December through January are due to ice affect and are considered poor. Estimated value on April 16 is due to the data logger being out of water during orifice relocation. Record prior to April 16, 2003, is poor. Record from April 16, 2003, through the water year is good except for high flows September 9 and 10, which are poor.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.19	5.4	5.0	e4.8	3.6	5.4	16	4.7	5.9	1.8	2.1	17
2	0.19	2.7	6.0	e5.4	3.5	6.0	18	4.3	5.6	1.7	8.0	14
3	5.7	4.4	3.5	e5.4	3.3	5.9	18	4.2	4.3	1.6	9.3	11
4	1.3	2.7	4.6	e5.4	4.9	6.0	15	5.1	3.5	1.6	2.6	10
5	0.68	2.5	5.6	5.4	4.7	5.3	15	5.3	4.0	1.6	1.8	9.1
6	1.4	1.6	4.7	4.3	5.3	5.7	15	4.0	4.0	1.4	1.6	8.0
7	0.34	1.5	4.6	8.5	7.1	6.6	14	2.4	3.7	1.3	1.6	22
8	0.34	1.8	4.0	6.8	7.9	7.6	12	2.1	3.4	1.2	1.9	24
9	0.54	5.4	3.8	4.5	11	9.6	12	1.9	3.6	1.1	1.8	304
10	0.30	5.5	e3.0	4.0	9.9	14	14	2.4	3.7	0.99	1.9	234
11	0.33	3.2	e2.3	4.7	8.7	23	20	2.1	4.0	0.94	2.0	52
12	0.26	4.5	e6.0	4.6	6.4	32	35	1.7	4.1	0.83	2.5	26
13	0.25	3.2	4.2	6.3	14	34	27	2.4	4.1	0.84	2.3	19
14	0.26	3.0	4.2	5.4	20	30	34	1.9	4.6	0.79	12	14
15	0.25	4.0	e4.3	4.8	6.8	21	32	8.9	4.4	1.0	7.3	11
16	0.25	5.5	e4.2	4.8	5.4	25	e18	5.0	4.2	1.0	4.0	9.9
17	0.25	3.9	e4.2	5.9	4.5	40	15	7.0	4.2	1.3	4.6	14
18	0.25	2.4	e4.0	6.1	4.8	30	15	4.0	4.5	1.3	4.0	14
19	0.26	3.8	e3.8	6.0	4.6	24	8.4	4.1	5.4	1.2	3.5	14
20	0.25	3.2	e4.0	6.2	3.8	18	6.3	4.0	9.6	1.1	2.7	12
21	0.26	2.9	e4.0	5.8	3.6	16	2.2	4.1	10	1.1	14	11
22	0.27	e2.95	e4.0	5.5	3.8	16	2.2	4.1	8.3	1.3	5.3	9.7
23	0.35	e3.02	e4.0	5.2	4.3	15	2.5	6.8	6.7	1.1	3.3	8.3
24	2.7	e3.1	e4.0	5.0	4.6	17	2.1	5.5	5.7	0.86	3.2	7.8
25	4.2	3.2	e4.0	4.8	4.7	16	2.4	5.0	3.8	0.92	3.9	7.2
26	3.3	4.6	e3.8	5.2	5.4	18	9.1	4.7	3.5	0.83	6.9	5.7
27	11	3.8	e4.0	4.8	5.2	18	22	4.3	3.2	0.93	5.4	4.7
28	6.4	4.9	e4.3	4.3	5.2	16	25	4.2	3.0	1.2	15	4.8
29	7.1	5.4	e4.7	4.6	---	15	20	4.2	3.1	1.3	23	4.5
30	17	6.4	e4.7	4.7	---	13	3.9	5.9	2.2	1.4	21	4.3
31	11	---	e4.8	3.8	---	14	---	6.6	---	1.5	24	---
TOTAL	77.17	110.47	132.3	163.0	177.0	523.1	451.1	132.9	140.3	37.03	202.5	907.0
MEAN	2.49	3.68	4.27	5.26	6.32	16.9	15.0	4.29	4.68	1.19	6.53	30.2
MAX	17	6.4	6.0	8.5	20	40	35	8.9	10	1.8	24	304
MIN	0.19	1.5	2.3	3.8	3.3	5.3	2.1	1.7	2.2	0.79	1.6	4.3
AC-FT	153	219	262	323	351	1040	895	264	278	73	402	1800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	4.71	6.17	5.92	6.20	8.70	17.7	30.2	40.5	4.78	0.85	3.53	13.7
MAX	6.04	8.67	11.1	10.7	10.2	29.8	73.8	117	9.31	1.19	6.53	30.2
(WY)	2001	2002	2002	2002	2001	2001	2001	2001	2001	2003	2003	2003
MIN	2.49	3.68	2.40	2.62	6.32	6.27	1.78	0.65	0.36	0.50	0.53	3.37
(WY)	2003	2003	2001	2001	2003	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2001 - 2003

ANNUAL TOTAL	1331.87	3053.87	
ANNUAL MEAN	3.65	8.37	6.64
HIGHEST ANNUAL MEAN			8.37 2003
LOWEST ANNUAL MEAN			4.90 2002
HIGHEST DAILY MEAN	25 Sep 8	304 Sep 9	304 Sep 9 2003
LOWEST DAILY MEAN	0.19 Oct 1	0.19 Oct 1	0.19 Oct 1 2002
ANNUAL SEVEN-DAY MINIMUM	0.22 Aug 12	0.25 Oct 12	0.22 Aug 12 2002
MAXIMUM PEAK FLOW		1060 Sep 9	1060 Sep 9 2003
MAXIMUM PEAK STAGE		4.15 Sep 9	4.15 Sep 9 2003
INSTANTANEOUS LOW FLOW		0.18 Oct 1	0.15 Aug 21 2002
ANNUAL RUNOFF (AC-FT)	2640	6060	4810
10 PERCENT EXCEEDS	10	17	13
50 PERCENT EXCEEDS	1.8	4.6	4.5
90 PERCENT EXCEEDS	0.26	1.2	0.34

e Estimated